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| POSITION            | INITIALS | ID NO. | DATE     |
|---------------------|----------|--------|----------|
| FEE DETERMINATION   | ALC:     |        | 10/28/98 |
| O.I.P.E. CLASSIFIER | DOW      | 32     | 6/29/58  |
| FORMALITY REVIEW    |          | 71435  | 1/2/98   |

## **INDEX OF CLAIMS**

| ~ | Rejected                   | N   |   | Non-elected  |
|---|----------------------------|-----|---|--------------|
|   | Allowed                    | ł   | : | Interference |
| _ | (Through numeral) Canceled | , A |   | Appeal       |
| ÷ | Restricted                 | 0   |   | Objected     |

|          |          |          | <del></del> |       |                |          |          |    |          |          |             |          |          |          |            |                                                  |          |              |                                                  |              |          |              | <b></b>                                          |          |       |          |          |         |          |              |          |            |          |                                               |          |          |
|----------|----------|----------|-------------|-------|----------------|----------|----------|----|----------|----------|-------------|----------|----------|----------|------------|--------------------------------------------------|----------|--------------|--------------------------------------------------|--------------|----------|--------------|--------------------------------------------------|----------|-------|----------|----------|---------|----------|--------------|----------|------------|----------|-----------------------------------------------|----------|----------|
| Cla      | im       | 1        |             |       |                | Dat      | е        | _  |          | _        |             | l        | Cla      | im       |            |                                                  |          |              | Dat                                              | 9            |          |              |                                                  |          |       | Cla      | im       |         |          |              | Dat      | 9          |          |                                               |          |          |
| Final    | Original |          | 47/0        | 12/0  |                |          |          |    |          | -        |             |          | Finat    | Original |            |                                                  |          |              |                                                  |              |          |              |                                                  |          | ٠     | Final    | Original |         |          |              |          |            |          |                                               |          |          |
|          | F        | 7        | 0           | _     |                |          |          |    | Г        |          |             | . `      | -        | 51       |            |                                                  |          |              |                                                  |              |          |              |                                                  |          |       | :        | 110      | T       |          |              |          |            |          | П                                             | П        | Π        |
|          | ,2       |          |             |       |                |          |          |    |          |          |             | ].       |          | 52       |            |                                                  |          |              |                                                  |              |          |              |                                                  |          |       |          | 112      | Т       | ·        |              |          | . **       |          |                                               |          | _        |
|          | 7        | 7        | П           |       |                |          | П        | Г  |          |          | Γ.          | -        |          | 53       | 1          |                                                  |          |              |                                                  |              |          |              |                                                  | _ ,      |       |          | 113 _    |         |          | -            |          | ¥.         |          | П                                             |          |          |
| 77       | A        |          | I           |       |                |          |          |    |          |          | i           | ]        |          | 54       | ų ·        | f i                                              |          |              |                                                  |              |          |              |                                                  | ٠,       | ٠.    | _        | 114      |         |          |              |          | 1          |          |                                               |          |          |
| Y        | Se       | I_       | V           |       | L              | _        | 1        | _  | -        | 4        | ٠.          | ٠.       | <u> </u> | 55       | <u></u>    | -                                                |          |              | _                                                |              |          | ,            |                                                  | ÷/       |       | L        | 115      |         | 乚        |              |          |            | ,        |                                               |          |          |
| 1        | 8        | 7_       | _           | V     | L              |          | L        | -  |          | L        | _           |          | L        | 56       |            |                                                  | _        |              | ·                                                |              |          | 44.F         |                                                  |          |       | L        | 116      | -       | _        |              |          | ١,         | 34       |                                               |          | ٠,       |
| <u></u>  | 1        |          | L           | Щ     | L              | L        |          |    |          | ٠        |             | *5       | _        | 57       |            | _                                                | ╙        | Ш            | Ŀ                                                |              | _        |              |                                                  |          |       | _        | 117      | 1_      |          |              |          |            |          | ٠٠.                                           |          | L        |
|          | .9       | Ŀ        | Ŀ           | F     | _              | Ŀ        | Ŀ        | L  | _        |          |             | , A.     | <u></u>  | 58       | L          |                                                  | _        |              |                                                  | Ŀ            |          |              |                                                  | L        |       | L        | 118      | 4       | Ľ        |              |          | .:         | 7        |                                               |          | -        |
| Ĺ        | 9        |          | <u> </u>    | Ц     | L              | -        | 2        |    | L        | Ŀ        |             | 7        |          | 59       |            |                                                  | Ŀ        |              | _                                                | Ļ            |          |              | Ш                                                |          |       | _        | 119      |         | Ŀ        |              | •        | <i>#</i> 1 |          | Ш                                             | * -      | Ŀ        |
|          | 10       | Ė        | -           | Н     | _              | Ŀ        | 3        | -  | -        | Ļ        | -11         | 7        | Ŀ        | 60       | :          | -                                                | _        |              | -                                                | -            | _        |              | L                                                |          | -     | L        | 110      | 1       |          | -            | است      | <u> </u>   | 4        |                                               | 1        |          |
|          | (11      |          | Ť           | 1     |                | - 5      |          | 1  | <u> </u> | 2        | - as        | 筵        | -        | 61       | , m        |                                                  | -        |              | <u>.</u>                                         |              | š        | -            | _                                                | -;       |       |          | 111      |         |          | -            | 1.       |            | 10       |                                               |          | <u></u>  |
| <u> </u> | 12       | -        | =           | 1     | -              | - 5      | -        | -  | -        | 2.       | 3.4.<br>10. | - 2      | -        | 62<br>63 | _          | -                                                | -        | -            | ,                                                |              |          |              | H                                                | >-       |       | =        | 112      | +       | -        |              | ::       |            | [3       |                                               |          | -        |
| $\vdash$ | 1        | <u> </u> |             | ⊬     |                | H        | 4,       |    | 1:       | -        | 1.0         | ~        | -        | 64       | <i>2</i> ; | -                                                |          | -            | -                                                | 1            | Н        |              | $\vdash$                                         | $\vdash$ | 1     | H        | 113      | +-      | -        | <u>-</u> -   |          | 3.         | Н        | $\vdash$                                      |          | -        |
| -        | 15       | -        | -           | ⊬     |                | S .      | 7        | 3  | -        | -        |             | 1.3      | (a)      | 65       | -          | -                                                | -        | -            | 140<br>7 -                                       | -            | ,        | H            |                                                  |          | £.    | $\vdash$ | 114      | +       | Ľ        | -            | H        | ļ.,        | 4        | Н                                             | (*)<br>  | -        |
| H        | 16       | ÷        | $\vdash$    | Η-    |                |          | -        |    | -        | **       | . *         | 7/5      | -        | 66       | المخيا     | H                                                | ÷        | -            |                                                  | H            | +        |              | Н                                                | H        | į     | 7        | 116      | +-      | $\vdash$ | -            | $\vdash$ |            | _        | H                                             |          | $\vdash$ |
| H        | 17       | -        | -           | #     | i              |          | H        |    | 65       | 100      |             | 37       | 1        | 67       | 8          | -                                                | H        | -            | -                                                | $\vdash$     | $\vdash$ | ٦.           | -                                                | 7        | 1     | -        | 117      | +-      | $\vdash$ | -            | Н        |            | 4        | H                                             | Н        | -        |
| <u>-</u> | 18       | -        | -           | ╟     | -              |          | -        | H  | +        | 1        |             | 1.       |          | 68       | 1          | ,                                                | -        |              |                                                  |              |          | -            | 7                                                |          | y.    | ├        | 118      | +-      | ╁╌       | ╁            |          |            |          |                                               | Н        | -        |
| -        | 19       | Ŀ.       |             | ╫╴    |                |          | 17       | 1. | 1.0      | 81       |             |          | 7        | 69       | 7          | 3,                                               |          | $\vdash$     |                                                  | -            |          | ·            | 12                                               | -        | . 1   | $\vdash$ | 119      | ┿       | ╫        | -            | -        |            | 18       |                                               | Н        | Н        |
| -        | 20       | _        |             | ╫╌    | 1              |          |          |    | 1        | le v     | ì.          | £.,      | 5        | 70       |            | 7                                                | -        | -            | -                                                | -            |          | _            | ŀ                                                | 7.       | \:    | H        | 120      | =;      | 1        |              | -        | 1          | 7        |                                               |          | 5        |
|          | 21       |          | 100         | ╟     |                | 7.0      |          | r  | 13.00    |          | 1           | 4        |          | 71       |            | -                                                | H        | -            | 1                                                |              | -        |              | 3                                                | -        | )     | ١,       | 121      | +-      | ┼        | -            | -        |            | ω.<br>   | 344<br>75                                     | ij.      | e (*     |
| H        | 22       |          | ×           | #     | 33             | 234      | 10       | -  | 1        | Ž,       | 33          | 3        | -        | 72       | _          | 7                                                | ٠.       | ┝            | ٠.                                               | 1.4          | ~        | -            |                                                  | -        |       | 7        | 122      | +       | +-       | 7            |          |            |          | 54                                            | 32       |          |
| $\vdash$ | 23       | 3        | 1.          | H     | т.             | 24       |          |    | 72-      | 2.       | Şį.         | Ιζ       |          | 73       | f          | 7                                                | H        | H            | -                                                | -            | ┝        | _            | -                                                | -        | 3     | 1        | 123      | +       | +        |              |          | ñ          |          | 7.                                            |          |          |
|          | 24       | 9        | 3           | Ħ     | 1.             | 3        | 7.       |    | 1        |          | -6          | 3        | -        | 74       | 1          | 7                                                |          | 1            | 1                                                |              | -        | -            | _                                                | 77       | . , , | ۲        | 124      | 1       | <u> </u> |              |          | _          |          | Ţ.                                            | *        | ونين     |
|          | 25       | V        | 10          | Ħ     |                | J. S.    |          |    | 1        | 3        |             | 1        |          | 75       |            | <u> </u>                                         |          | -            |                                                  | · · ·        |          | -            | ,.                                               | Ι-       |       |          | 125      |         | 1.       |              |          | 7.7        | -i.      | خامد                                          |          | 1,4      |
|          | 20       |          |             | H     | χ.             | ×.       |          |    |          | 7.7      | ं           |          | 2.       | 76       |            |                                                  |          |              |                                                  | 1            |          | _            | -                                                | 17,      | 1.7   |          | 126      | 1       | ,        |              |          | -          | -        | -,                                            |          | 0.       |
| 6        | 27       | 1.7      |             | Ħ     | 1              | 3        |          | 2  | 37       |          | -           | <u>.</u> |          | 77       | 7          | T                                                |          |              |                                                  |              |          |              |                                                  |          | IJ.   | Г        | 127      | 1.      | Т        |              | ••       |            | 9.       | 100                                           |          |          |
| .[       | 28       |          | 12          | П     |                | 1.5      | 17       | -  |          | 4.1      | ,           |          |          | 78       |            |                                                  |          |              |                                                  |              |          |              |                                                  |          | 1     |          | 128      |         |          |              |          | 1          |          | Υ.                                            |          |          |
|          | 29       |          |             | $\Pi$ | 43.5           | ं        |          | 3  |          |          | ₩,          | ]        |          | 79       |            |                                                  |          | Ŀ            |                                                  |              | ,        |              |                                                  |          | 1     |          | 129      |         |          |              |          |            |          |                                               |          | .,       |
| L        | 30       |          |             | II.   |                | ,".      |          |    |          |          | Ŀ           |          | L        | 70       | L          | L                                                | L        |              | 1                                                | 1            | : 52     |              |                                                  | -        |       |          | 130      | 1       | Ŀ        | L            |          |            | Ŀ        | 7.                                            | 4        | 1        |
|          | 河        | L        |             | L     | 13             | 1        | Ŀ        | L  | ١.       | Ŀ        | Ľ           |          | L        | 81       | L          | _                                                | L        | Ľ            | <u></u>                                          | ٠            |          | L            | Ŀ                                                | Ŀ        | Ш     | L        | 131      | 1.      | 乚        | L            |          | L          |          | 81                                            | Ĺ        |          |
| Ц        | 32       | 2        | 1           | 11    | j.,            |          |          |    |          | L        | Ŀ           |          | L        | 82       | ╙          | L                                                | L        | 匚            | Ŀ                                                | L.           |          | <u></u>      | <u> </u>                                         | Ŀ        |       | L        | 132      | $\perp$ | ┖        | Ľ            | Ш        |            |          | Ш                                             | Ш        | _        |
| 1        | 33       | Ŀ        | 1           | 11    | L              | <u> </u> | 10       | Ŀ  | 1.       | 3        |             | ١.,      |          | 83       | L          | _                                                | Ļ        | L            | <u> </u>                                         |              | ļ        | ļ            | <u> </u>                                         | 1        | ļ     | <u> </u> | 133      | 4       | -        | <b>!</b>     | _        |            |          | Ш                                             | ш        | L        |
| Ŀ        | 34       | L        | $\vdash$    | 1     | 1              | 1        | ╁        | L  | 1        | -        | 1           | 1        | H        | 84       | L          | L                                                | L        | ┞            | Ŀ                                                | <u> </u>     | <u> </u> | <u> </u>     | <u> </u>                                         | L        | ŀ     | <u> </u> | 134      | +-      | 1        | ـ            | <u> </u> | <u> </u>   | <b></b>  | <u>  -                                   </u> | -        |          |
| $\vdash$ | 35<br>36 | H        | H           | 14    | ├-             | 1        | ļ.       |    | 11       | -        | 1-          | 1        | -        | 85<br>86 | L          | -                                                | H        | 1            | $\vdash$                                         | -            | H        | <u> </u>     | Ľ                                                | Ŀ        | 1     | $\vdash$ | 135      | +       | ╀        |              | ⊢        | H          | i-       | $\vdash$                                      |          | -        |
| -        | 37       | H        | 1           | H     | $\vdash$       | -        | ۲        | -  | 1        | +        | +           |          | H        | 87       | -          | H                                                | H        | ۲            | $\vdash$                                         | $\vdash$     | $\vdash$ | H            | H                                                | ⊢        |       | ┝        | 137      | +-      | 1        | $\vdash$     | H        | H          | H        | H                                             | $\vdash$ | ⊢        |
| ⊢        | 38       | H        | ,e          | H     | ╁.             | +        | $\vdash$ | ╀  | ╁        | ├        | $\vdash$    | 1.       | H        | 88       | 14         | ⊢                                                | H        | H            |                                                  | -            | H        | H            | ⊢                                                | ⊢        | -     | ⊢        | 138      | +       | ╁        | ⊢            | H        | _          | $\vdash$ | Н                                             | Н        | ⊢        |
| -        | 39       | H        | ┼           | ₩     | ÷              | ╁        | -        | ╀  | +-       | ┝        | +           |          | -        | 89       | ╁╴         | <b>├</b>                                         | -        | ├            | -                                                | ۲.           | ⊢        | ⊢            | ⊢                                                | ├        | ł     | ⊢        | 139      | +-      | $\vdash$ | -            | ┝        |            |          | $\vdash$                                      |          | -        |
| -        | 39<br>40 | $\vdash$ | $\vdash$    | H     | H              | ╁        | -        | -  | +        | ╀        | +           | ľ        | -        | 90       | ╁          | $\vdash$                                         | +        | ├-           | ŕ                                                | -            | -        | <del> </del> | $\vdash$                                         | -        | ł     | $\vdash$ | 140      | +-      | +        | -            | H        | -          | -        | $\vdash \vdash$                               | $\vdash$ | -        |
| r        | 41       | -        | $\vdash$    | ℍ     | -              | +        | ╁        | 1  | +        | Η-       | ╁           | 1        | ⊩        | 91       | H          | ⊢                                                | ┝        | ١-           | ╁                                                | ├-           | $\vdash$ | ├            | -                                                | ⊢        | ł     | $\vdash$ | 141      | ╁╌      | ╁        | $\vdash$     | Н        | -          |          | $\vdash$                                      |          | -        |
| 1        | -        | 77.      | -           | ₩     | -              | +        | +-       | -  | +        | 7        | ⊢           | 1.       | -        | 92       | ┝          | ⊢                                                | H        | <del> </del> | -                                                |              | ├        | <del> </del> | $\vdash$                                         | ┝        | ł     | ⊢        | 142      | +-      | ╁        | ╁            | $\vdash$ | $\vdash$   | ⊢        | Н                                             | Н        | H        |
| -        | 43       | H        | F           | ₩     | +              | +-       | +-       | 1  | +-       | ۲        | H           | 1        | $\vdash$ | 93       |            | -                                                | -        | ┢            | ┢                                                | -            | ├-       | -            | -                                                | -        | ł     | ⊢        | 143      | +       | ╁        | $\vdash$     | $\vdash$ | $\vdash$   | $\vdash$ | $\vdash$                                      | Н        | H        |
| $\vdash$ | 44       |          | H           | H     | ╁              | $\vdash$ | +-       | H  | ╁        | -        | $\vdash$    | 1        | -        | 94       | ÷          | -                                                | $\vdash$ | ┢            | ⊢                                                | $\vdash$     | ├-       | $\vdash$     | -                                                | ┢        | ł     | $\vdash$ | 144      | +       | +-       | $\vdash$     | $\vdash$ | <u> </u>   | -        | H                                             | H        | -        |
| $\vdash$ | 45       | H        | 1           | H     | 1              |          | +        | ╁  | +        | ╁        | +           | 1        | -        | 95       | _          | ╁                                                | $\vdash$ | $\vdash$     | $\vdash$                                         |              | ┢╾       | ┝            | $\vdash$                                         | $\vdash$ | ł     | <u> </u> | 145      | +       | +        | <del> </del> | H        | $\vdash$   | H        | H                                             | Н        | H        |
|          | 46       | )        | +-          |       | <del>  -</del> | +        | +        | +  | +        | $\vdash$ | ✝           | 1        | $\vdash$ | 96       | -          | <del>                                     </del> | $\vdash$ | $\vdash$     | <del>                                     </del> | <del> </del> | ╁        | ┢            | <del>                                     </del> | $\vdash$ |       | $\vdash$ | 146      | +       | Т        | Т            | Н        | Н          | М        | Н                                             | Н        | _        |
| #        | 47       | 5        | 17          | V     | t              | T        | 1        | t  | +-       | H        | t           | 1        | $\vdash$ | 97       | t          | H                                                | $\vdash$ | T            | $\vdash$                                         | $\vdash$     | Н        |              | Т                                                | $\vdash$ |       | H        | 147      | $\top$  | T        | $\vdash$     | П        | П          | Н        | Н                                             | П        | Г        |
| 1        | 48       | Г        | +-          | 1     | ۲              | ╁        | t        | t  | +-       | H        | t           | 1        | $\vdash$ | 98       | t          | H                                                | $\vdash$ | 1            | $\vdash$                                         |              | Н        | $\vdash$     | Т                                                | $\vdash$ | 1     | 一        | 148      | $\top$  | t        | $\vdash$     | Г        | Н          | r        | Н                                             |          | <u> </u> |
| F        | 49       | Г        | T           | 1     | T              |          | T        | t  | †        | T        | T           | 1        |          | 99       | _          | T                                                | Г        | $\vdash$     | Т                                                |              |          |              | Г                                                |          | 1     | H        | 149      | $\top$  | T        | Г            | Г        | П          |          | П                                             | П        | Г        |
|          | 50       |          | L           |       | T              | İ        |          | T  | 1        | I        |             | ]        |          | 100      |            |                                                  | Γ        |              |                                                  |              |          |              |                                                  |          | ]     |          | 150      | $\perp$ |          |              |          |            |          |                                               |          |          |
| -        |          |          | -           |       | •              | _        | •        | -  |          | -        |             | _        |          | _        | _          |                                                  |          |              | -                                                | -            | -        |              | -                                                |          | -     | _        |          |         |          |              |          |            |          |                                               |          |          |

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